# DVS 2500

SEDOR® Video Analysis Server Appliance for up to 24× Analysis and
24× Recording (IP Channels)

**SEDOR®**

**SEDOR®** is a high-performance and self-learning video analysis system which provides outstanding analytical results due to state-of-the-art image analysis algorithms and the constant adjustment of the system parameters to the current surrounding conditions (auto-adaptation). If used together with the different **analysis applications**, it can serve a variety of surveillance and counting purposes.



The **DVS 2500** is a SEDOR® video analysis server appliance for the analysis of up to 24 IP-based video streams. The dedicated server software **DVS Analysis Server** is installed ex factory and configured with a browser over Ethernet using the integrated **SEDOR® WebGUI**. Together with the optional licenses for the various **SEDOR® analysis applications** up to 24 channels can be used for video analysis according to demand.

The integrated VideoIP server software **SMAVIA Recording Server** can be used for the storage and playback of up to 24 IP-based audio and video streams. The corresponding software **SMAVIA Viewing Client** for Windows operating systems allows for an independent and convenient evaluation of the recordings via Ethernet (LAN/WAN).

## Features DVS Analysis Server

- Supports up to 24 analysis channels
- Licenses for analysis optional
- Supports Dallmeier network cameras
- SEDOR® analysis application Art optional
- SEDOR® analysis application Intruder optional
- SEDOR® WebGUI for the analysis configuration over Ethernet integrated
- Resolution SD (up to D1) and HD (up to 1080p)
- Ethernet I/O Interface optional

## Features SMAVIA Recording Server

- Supports up to 24 recording channels
- Licenses for recording optional
- Basic license for the access of a SMAVIA Viewing Client included
- Free conversion of the basic license to a floating license on acquisition of additional access licenses
- License for the connection to SNMP systems included
- License for the recording of multicast video streams included
- License for real-time recording included
- Recording of 3rd-party IP cameras with motion detection optional[1]
- Configuration of 3rd-party IP cameras via ONVIF protocol optional[1]
- PRemote-HD in real-time optional
- Connection to Active Directory via LDAP
- Evaluation with SMAVIA Viewing Client or SeMSy® via Ethernet

| Appliance | |
|---|---|
| 004440 | **DVS 2500**<br>SEDOR® video analysis server appliance for up to 24× analysis and 24× recording<br>(IP channels), without recording and analysis licenses, without HDDs |

1) Note the white paper **SMAVIA & 3rd Party IP Cameras**. DVS 2500 version 8.8.3 is equivalent to DMS 2400 version 8.1.3.

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| Integrated Licenses | |
|---|---|
| **DLC - 1 Basic Client Access** | License for the access of a SMAVIA Viewing Client to a SMAVIA Recording Server (basic license) |
| **DCP - DVS Software Maintenance 12 Months** | License for the update of the DVS Analysis Server software for 12 months |
| **DLC - SNMP** | License for the integration into a central SNMP device management system |
| **DLC - Multicast Recording** | License for recording the video streams of Dallmeier IP cameras transmitting over multicast |
| **DLC - Real-Time Recording** | License for real-time recording for all IP channels (depends on the camera) |

| Optional Licenses DVS Analysis Server | | |
|---|---|---|
| 004247 | **DLC - 1 Analysis Channel SEDOR® Art** | License for the simultaneous use of the applications SEDOR® Art and SEDOR® Camera Sabotage Protection for one channel |
| 004248 | **DLC - 1 Analysis Channel SEDOR® Intruder** | License for the simultaneous use of the applications SEDOR® Intruder and SEDOR® Camera Sabotage Protection for one channel |
| 004210 | **DLC - 1 Analysis Channel SEDOR® Camera Sabotage Protection** | License for the detailed configuration, detection and reporting of covering, defocusing and twisting of the camera for one channel |
| 000595 | **DLC - SEDOR® Event Matrix** | License for the use of the software interface for the connection of Ethernet I/O Interfaces |

| Optional Licenses SMAVIA Recording Server | | |
|---|---|---|
| 003782 | **DLC - 1 Additional Client Access** | License for the simultaneous access of a further SMAVIA Viewing Client on SMAVIA Recording Server (floating license) |
| 004068 | **DLC - 5 Additional Client Access** | License for the simultaneous access of five further SMAVIA Viewing Clients on SMAVIA Recording Server (floating license) |
| 004069 | **DLC - 10+ Additional Client Access (Unlimited)** | License for the simultaneous access of an unlimited number of SMAVIA Viewing Clients on SMAVIA Recording Server, depending on system load and bandwidth (floating license) |
| 003783 | **DLC - 1 Additional Recording Channel** | License for the use of 1 additional channel for recording with SMAVIA Recording Server |
| 003784 | **DLC - 2 Additional Recording Channel** | |
| 003785 | **DLC - 4 Additional Recording Channel** | |
| 003786 | **DLC - 8 Additional Recording Channel** | |
| 004079 | **DLC - 12 Additional Recording Channel** | |
| 004080 | **DLC - 16 Additional Recording Channel** | |
| 004412 | **DLC - 3rd Party Package for 1 IP Channel** | License for recording (constant or with motion detection[2]) the video stream of third-party IP cameras, for one IP channel |
| 004413 | **DLC - 3rd Party Package for 2 IP Channels** | |
| 004414 | **DLC - 3rd Party Package for 4 IP Channels** | |
| 004415 | **DLC - 3rd Party Package for 8 IP Channels** | |
| 004416 | **DLC - 3rd Party Package for 12 IP Channels** | |
| 004417 | **DLC - 3rd Party Package for 16 IP Channels** | |
| 004418 | **DLC - 3rd Party Package for 24 IP Channels** | |
| 003801 | **DLC - PRemote-HD** | License for the transmission of SD and HD video at low bandwidth, including a dedicated access license[3] and the function for bidirectional audio transmission (intercom) via LAN/WAN |
| 005142 | **DLC - Ethernet I/O Interface for SMAVIA[4]** | License for the use of the software interface for the connection of Ethernet I/O interfaces |

2) Note the white paper **SMAVIA & 3rd Party IP Cameras**, as well as tables "Recording" and "Functions" on page 4. DVS 2500 version 8.8.3 is equivalent to DMS 2400 version 8.1.3.
3) The first PRemote client (master) is assigned active control over the PRemote stream; further PRemote clients (slaves) receive the stream passively.
4) The current version supports the connection of the interfaces MOXA ioLogik E1210 (16 contacts) and MOXA ioLogik E1214 (6 contacts, 6 relays).

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| Optional Hardware | | |
|---|---|---|
| 005763 | | **HDD Kit 1000 GB, SATA, 2.5" (for HP DL385p G8), incl. Tray**<br>Hard disk drive 1000 GB for DVS Analysis Server Hardware (HP ProLiant DL385p G8),<br>mounted on HDD tray |
| 001739 |  | **Remote Ethernet I/O Interface**[5]<br>Ethernet I/O Interface, 2× Ethernet, 6× relay (Moxa E1214) |

| Maintenance and Warranty | |
|---|---|
| 004193 | **DCP - DVS Software Maintenance 12 Months**<br>License for the update of the DVS Analysis Server software for further 12 months |

5)   License 000595 required.

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## Specifications DVS Analysis Server Software

| Software | |
|---|---|
| Operating system | Linux (proprietary, hardened), included in installation |
| External configuration software | SEDOR® WebGUI via Ethernet |
| Language | English, German (others on request) |
| Max. No. analysis channels | 24× IP-based video channels |
| Supported cameras | Dallmeier IP cameras |

| Licenses Applications | |
|---|---|
| SEDOR® Intruder | optional |
| SEDOR® Art | optional |

| Licenses Functions | |
|---|---|
| SEDOR® Camera Sabotage Protection | optional |
| SEDOR® Event Matrix | optional |

## Specifications DVS Analysis Server Hardware

| Hardware | |
|---|---|
| Device | DVS Analysis Server hardware (HP ProLiant DL385p G8) |
| Typ | Server |
| Mounting type | Rack-mount |

| Drives | |
|---|---|
| Max. No. hard disk drives | Up to 8× |
| Included hard disk drives | 2× HDD 2,5", 500 GB, SATA |
| Optical drive | 1× HP Slimline DVD-ROM, SATA |
| RAID | Automatic or RAID 0, 1, 10, 5 manual |

| Electrical Data | |
|---|---|
| Voltage supply | 120/230 V AC, 50/60 Hz |
| Power consumption | Max. 750 W |
| Thermal output | Max. 2560 BTU/h |

| Mechanical Data | |
|---|---|
| Dimensions (W × H × D) | Approx. 445 × 87 × 750 mm (17.5" × 3.4" × 29.5") |
| Height units | 2 HU |
| Weight | Approx. 20 kg (44.1 lb; with 2× HDDs)<br>Up to approx. 27 kg (59.5 lb; depending on the number of HDDs) |

| Ambient Data | |
|---|---|
| Temperature | +10°C up to +35°C (50°F − 95°F) |
| Humidity | 10 – 90 % RH, non-condensing |

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## Spezifikationen SMAVIA Recording Server

| Software | |
|---|---|
| Operating system | Linux (proprietary, hardened) |
| Application | SMAVIA Recording Server |
| Application language | English, German, French, Spanish, Italian (others on request) |
| External management software | SMAVIA Viewing Client, SeMSy® III<br>DMVC App (optional, license for PRemote-HD 003801 required) |
| External configuration software | PService |

| Performance | |
|---|---|
| Channels | Up to 24× IP-based video channels |
| Supported cameras | Dallmeier IP cameras via TCP / DaVid Protocol (Dallmeier Video Protocol)<br>3rd-party IP cameras with RTSP streaming via UDP / RTP[6] |
| Track mode | Automatic |
| Video / audio compression | H.264 / G.722.1 |
| Resolutions SD IP | QCIF (176 × 144), CIF (352 × 288), Half D1 (352 × 576), 2CIF (704 × 288), 4CIF (704 × 576), D1 (720 × 576) |
| Resolutions HD IP | 720p (1280 × 720), SXGA (1280 × 960), 2 MP (1600 × 1200) 1080i (1920 × 1080), 1080p (1920 × 1080) |
| Resolutions megapixel | 3 MP (2048 × 1536), 4 MP (2336 × 1744), 5 MP (2592 × 1944), up to 8 MP |
| Frame rate per SD IP channel | 6,25 / 12,5 / 25 fps |
| Frame rate per HD IP channel | 6,25 / 12,5 / 25 fps |
| Frame rate per RTSP IP channel | Up to 25 fps |
| Max. total bit rate | Up to 120 Mbps |
| Bit rate per SD IP channel | Up to 4 Mbps |
| Bit rate per HD IP channel | Up to 6 Mbps |
| Bit rate per RTSP IP channel | Up to 6 Mbps |

| Features | |
|---|---|
| Motion detection | Integrated |
| SmartFinder | Integrated |
| Audio for all channels | Integrated (depending on the camera) |
| DMVC Server | Integrated (PRemote-HD license 003801 required) |

| Recording[7] | 3rd Party IP-Kamera | Dallmeier IP Camera |
|---|---|---|
| Transport protocol | RTP over UDP | TCP |
| Communications protocol | RTSP | DaVid |
| Recording control with timer | integrated | integrated |
| Recording mode Constant | integrated | integrated |
| Recording mode Contact | in preparation | integrated |
| Recording mode Motion | integrated | integrated |
| Recording mode Motion/Contact | in preparation | integrated |
| Switching recording mode by timer | -- | integrated |

6) Optional licenses **3rd Party Package** (004412 to 004418) required.
Note the white paper **SMAVIA & 3rd Party IP Cameras**. DVS 2500 version 8.8.3 is equivalent to DMS 2400 version 8.1.3.
7) Data refer to a fully equipped appliance. Optional licenses are required.

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| Function[8] | 3rd Party IP-Kamera | Dallmeier IP Camera |
|---|---|---|
| Motion detection | integrated | integrated |
| SmartFinder | integrated | integrated |
| Appliance as video proxy | integrated | integrated |
| Appliance as multicast streamer | integrated | integrated |
| PRemote-HD | integrated | integrated |
| DMVC Server | integrated | integrated |
| Local PTZ control | in preparation | integrated |
| PTZ control with SMAVIA Viewing Client | in preparation | integrated |
| Camera configuration | integrated | integrated |
| Locking the camera configuration | -- | integrated |
| Audio recording | -- | integrated |
| Recording of multicast video streams | -- | integrated |
| Processing with DVS Analysis Server | in preparation | integrated |

8)   Data refer to a fully equipped appliance. Optional licenses are required.